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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/17/2004

RENNER, KENNER, GREIVE, BOBAK, TAYLOR & WEBER
1610 First National Tower
Akron, OH 44308-1456

EXAMINER
SCHECHTER, ANDREW M

PAPER NUMBER

ART UNIT

DATE MAILED: 02/17/2004

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,560	04/20/2001	Masanobu Shigeta	KYO.P0006	1275

TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY AND PROJECTOR HAVING ELECTRODE SECTION WITH EQUAL AREAS AND DIFFERENT HEIGHTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

02/17/2004

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1610 First National Tower
Akron, OH 44308-1456

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	ansimited to the OSI 10, on the date maleated ociow.
(Depositor's name)	
(Signature)	
(Date)	

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SCHECHTER, ANDREW M		2871		349-143000	_	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer			names of agents OR firm (havin agent) and	ting on the patent front page up to 3 registered patent , alternatively, (2) the name ng as a member a registered the names of up to 2 registered or agents. If no name is list	attorneys or 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE:	(CITY and	STATE OR	COUNTRY)
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Please check the appropriate assignee category or ca 4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):		corporation or other private group e	ntity 🖸 governmen			
☐ Issue Fee	☐ A check in the am	☐ A check in the amount of the fee(s) is enclosed.					
☐ Publication Fee	☐ Payment by credit	☐ Payment by credit card. Form PTO-2038 is attached.					
☐ Advance Order - # of Copies	☐ Advance Order - # of Copies ☐ The Director is h			hereby authorized by charge the required fee(s), or credit any overpayment, tumber (enclose an extra copy of this form).			
Director for Patents is requested to apply the Issue F	ee and Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified	l above.			
(Authorized Signature)	(Date)						
NOTE; The Issue Fee and Publication Fee (if reother than the applicant; a registered attorney or interest as shown by the records of the United State	agent: or the assignee or other party in						
This collection of information is required by 37 obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U.S. estimated to take 12 minutes to complete, includin completed application form to the USPTO. Time case. Any comments on the amount of time you suggestions for reducing this burden, should be so Patent and Trademark Office, U.S. Departme 22313-1450. DO NOT SEND FEES OR COMINICATION SEND TO: Commissioner for Patents, Alexandria,							
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Akron, OH 44308-1456			2871	_		
			DATE MAILED: 02/17/200	4		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 362 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 362 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)
	09/839,560	SHIGETA, MASANOBU
Notice of Allowability	Examiner	Art Unit
	Andrew Schechter	2871
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included ation will be mailed in due course. THIS
1. 🖂 This communication is responsive to the filing of 21 Januar	<u>y 2004</u> .	
2. The allowed claim(s) is/are <u>1-11</u> .		
3. \boxtimes The drawings filed on <u>20 April 2001</u> are accepted by the Ex	kaminer.	
 4.	been received. been received in Application Noteuments have been received in the communication to file a received. of this communication to file a received in the communication to file a received. In the communication to file a received in the communication. In the communication to file a received. In the communication to file a received in the communication to file a received in the communication. In the communication to file a received in the communication to file a received in the communication. In the communication to file a received in the communication.	this national stage application from the capty complying with the requirements SER'S AMENDMENT or NOTICE OF claration is deficient. TO-948) attached TO-948) attached TO-948 attached TO-948 attached TO-948 attached TO-948 attached
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIA	AL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summ Paper No./Mail 8), 7. ☐ Examiner's Ame	

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-11 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The prior art does not disclose the liquid crystal display of claim 1, in particular the limitations of first electrode sections having first thickness and height, and separate second electrode sections having second thickness and height, the first thickness being thicker than the second thickness, and the first height being higher than the second height, and areas of the first and second electrode sections in total being equal. [Note that the previous rejection in view of *Kubo*, U.S. Patent No. 6,195,140, has been overcome as discussed in the Interview of 25 November 2003 by specifying "separate" second electrode sections. The first electrode sections and second electrode sections in *Kubo* are not separate.] Claim 1 is therefore allowed, as are claims 2-8 which depend from claim 1.

The prior art does not disclose the projector of claim 9, in particular the limitations of a liquid crystal display with first and second electrode sections having different heights, and areas in total being equal, in a projector comprising a light source, polarization beam splitter, and projection lens. Claim 9 is therefore allowed, as is claim 10 which depends on claim 9.

The prior art does not disclose the liquid crystal display of claim 11, in particular the limitations of first and second electrode sections having different heights, areas in

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total being equal, an area of each first electrode section and an area of each second electrode section being equal to each other, and (the additional limitation of the previous claim 6, indicated as allowable in a previous office action) that the sections are arranged in a matrix so that a group of a specific number of the first and a group of a specific number of the second are adjacent to each other. Here, based on the specification and Fig. 6, the examiner understands "arranged in matrix so that a group of a specific number" to exclude a group of one (the situation in the previously rejected claim 5), and to exclude alternating rows extending all the way across the display (the situation in the previously rejected claim 7). Claim 11 is therefore allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Schechter whose telephone number is (571) 272-2302. The examiner can normally be reached on Monday - Friday, 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Schechter 29 January 2004

RUNURT H. KIM SUPERVISONY PATENT EXAMMER TECHNOLOGY CENTER 2800